

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:35:18

INPUT SET: S36649.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1
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46

SEQUENCE LISTING

(1) General Information:

(i) APPLICANTS: C. Morrow et al.

(ii) TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL
NUCLEIC ACID AND METHODS OF MAKING AND
USING SAME

(iii) NUMBER OF SEQUENCES: 23

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: LAHIVE & COCKFIELD
(B) STREET: 28 STATE STREET
(C) CITY: BOSTON
(D) STATE: MASSACHUSETTS
(E) COUNTRY: USA
(F) ZIP: 02109

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: ASCII

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/756,551
(B) FILING DATE: 08-JAN-2001
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/376,184
(B) FILING DATE: 17-AUG-1999
(C) CLASSIFICATION:

(viii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/987,867
(B) FILING DATE: 09-DEC-1997
(C) CLASSIFICATION:

(ix) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/389,459
(B) FILING DATE: 15-FEB-1995

(x) PRIOR APPLICATION DATA:

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:35:18

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47 (A) APPLICATION NUMBER: 08/087,009
48 (B) FILING DATE: 01-JUL-1993
49
50 (xi) ATTORNEY/AGENT INFORMATION:
51 (A) NAME: Lauro, Peter C.
52 (B) REGISTRATION NUMBER: 32,360
53 (C) REFERENCE/DOCKET NUMBER: UAI-004CPDV2CN
54
55 (xii) TELECOMMUNICATION INFORMATION:
56 (A) TELEPHONE: (617) 227-7400
57 (B) TELEFAX: (617) 742-4214
58
59
60 (2) INFORMATION FOR SEQ ID NO:1:
61
62 (i) SEQUENCE CHARACTERISTICS:
63 (A) LENGTH: 14 base pairs
64 (B) TYPE: nucleic acid
65 (C) STRANDEDNESS: single
66 (D) TOPOLOGY: linear
67
68 (ii) MOLECULE TYPE: cDNA
69
70
71
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
73
74 TATTAGTAGA TCTG 14
75
76 (2) INFORMATION FOR SEQ ID NO:2:
77
78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 14 base pairs
80 (B) TYPE: nucleic acid
81 (C) STRANDEDNESS: single
82 (D) TOPOLOGY: linear
83
84 (ii) MOLECULE TYPE: cDNA
85
86
87
88 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
89
90 TACAGATGTA CTAA 14
91
92 (2) INFORMATION FOR SEQ ID NO:3:
93
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 845 base pairs
96 (B) TYPE: nucleic acid
97 (C) STRANDEDNESS: single
98 (D) TOPOLOGY: linear
99

RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:35:18

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100 (ii) MOLECULE TYPE: cDNA

101

102

103 (ix) FEATURE:

104 (A) NAME/KEY: CDS

105 (B) LOCATION: 20..845

106

107

108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

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110 ACACAGCAAT CAGGTCAGC CAA AAT TAC CCT ATA GTG CAG AAC ATC CAG GGG 52

111 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly

112 1 5 10

113

114 CAA ATG GTA CAT CAG GCC ATA TCA CCT AGA ACT TTA AAT GCA TGG GTA 100

115 Gln Met Val His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val

116 15 20 25

117

118 AAA GTA GTA GAA GAG AAG GCT TTC AGC CCA GAA GTG ATA CCC ATG TTT 148

119 Lys Val Val Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe

120 30 35 40

121

122 TCA GCA TTA TCA GAA GGA GCC ACC CCA CAA GAT TTA AAC ACC ATG CTA 196

123 Ser Ala Leu Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu

124 45 50 55

125

126 AAC ACA GTG GGG GGA CAT CAA GCA GCC ATG CAA ATG TTA AAA GAG ACC 244

127 Asn Thr Val Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr

128 60 65 70 75

129

130 ATC AAT GAG GAA GCT GCA GAA TGG GAT AGA GTG CAT CCA GTG CAT GCA 292

131 Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala

132 80 85 90

133

134 GGG CCT ATT GCA CCA GGC CAG ATG AGA GAA CCA AGG GGA AGT GAC ATA 340

135 Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile

136 95 100 105

137

138 GCA GGA ACT ACT AGT ACC CTT CAG GAA CAA ATA GGA TGG ATG ACA AAT 388

139 Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn

140 110 115 120

141

142 AAT CCA CCT ATC CCA GTA GGA GAA ATT TAT AAA AGA TGG ATA ATC CTG 436

143 Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu

144 125 130 135

145

146 GGA TTA AAT AAA ATA GTA AGA ATG TAT AGC CCT ACC AGC ATT CTG GAC 484

147 Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp

148 140 145 150 155

149

150 ATA AGA CAA GGA CCA AAG GAA CCC TTT AGA GAC TAT GTA GAC CGG TTC 532

151 Ile Arg Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe

152 160 165 170

RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:35:19

INPUT SET: S36649.raw

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153
154 TAT AAA ACT CTA AGA GCC GAG CAA GCT TCA CAG GAG GTA AAA AAT TGG      580
155 Tyr Lys Thr Leu Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp
156              175              180              185
157
158 ATG ACA GAA ACC TTG TTG GTC CAA AAT GCG AAC CCA GAT TGT AAG ACT      628
159 Met Thr Glu Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr
160              190              195              200
161
162 ATT TTA AAA GCA TTG GGA CCA GCG GCT ACA CTA GAA GAA ATG ATG ACA      676
163 Ile Leu Lys Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr
164              205              210              215
165
166 GCA TGT CAG GGA GTA GGA GGA CCC GGC CAT AAG GCA AGA GTT TTG GCT      724
167 Ala Cys Gln Gly Val Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala
168 220              225              230              235
169
170 GAA GCA ATG AGC CAA GTA ACA AAT TCA GCT ACC ATA ATG ATG CAG AGA      772
171 Glu Ala Met Ser Gln Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg
172              240              245              250
173
174 GGC AAT TTT AGG AAC CAA AGA AAG ATT GTT AAG TGT TTC AAT TGT GGC      820
175 Gly Asn Phe Arg Asn Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly
176              255              260              265
177
178 AAA GAA GGG CAC ACA GCC AGA AAG T      845
179 Lys Glu Gly His Thr Ala Arg Lys
180              270              275
181
182
183 (2) INFORMATION FOR SEQ ID NO:4:
184
185 (i) SEQUENCE CHARACTERISTICS:
186 (A) LENGTH: 275 amino acids
187 (B) TYPE: amino acid
188 (D) TOPOLOGY: linear
189
190 (ii) MOLECULE TYPE: protein
191
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
193
194 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln
195 1              5              10              15
196
197 Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu
198 20              25              30
199
200 Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu
201 35              40              45
202
203 Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly
204 50              55              60
205

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
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206 His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala
207 65 70 75 80
208
209 Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro
210 85 90 95
211
212 Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser
213 100 105 110
214
215 Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro
216 115 120 125
217
218 Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile
219 130 135 140
220
221 Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro
222 145 150 155 160
223
224 Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg
225 165 170 175
226
227 Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu
228 180 185 190
229
230 Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu
231 195 200 205
232
233 Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val
234 210 215 220
235
236 Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala Glu Ala Met Ser Gln
237 225 230 235 240
238
239 Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg Gly Asn Phe Arg Asn
240 245 250 255
241
242 Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly Lys Glu Gly His Thr
243 260 265 270
244
245 Ala Arg Lys
246 275
247

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(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 948 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:35:20

INPUT SET: S36649.raw

Line

Error

Original Text

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:28:16

INPUT SET: S36649.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

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(ii) TITLE OF INVENTION: ENCAPSIDATED RECOMBINANT VIRAL
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(B) FILING DATE: 17-AUG-1999
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49
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51 (A) NAME: Lauro, Peter C.
52 (B) REGISTRATION NUMBER: 32,360
53 (C) REFERENCE/DOCKET NUMBER: UAI-004CPDV2CN
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55 (xii) TELECOMMUNICATION INFORMATION:
56 (A) TELEPHONE: (617) 227-7400
57 (B) TELEFAX: (617) 742-4214
58
59

60 (2) INFORMATION FOR SEQ ID NO:1:
61
62 (i) SEQUENCE CHARACTERISTICS:
63 (A) LENGTH: 14 base pairs
64 (B) TYPE: nucleic acid
65 (C) STRANDEDNESS: single
66 (D) TOPOLOGY: linear
67

68 (ii) MOLECULE TYPE: cDNA
69
70
71

72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
73

74 TATTAGTAGA TCTG

14

75
76 (2) INFORMATION FOR SEQ ID NO:2:
77

78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 14 base pairs
80 (B) TYPE: nucleic acid
81 (C) STRANDEDNESS: single
82 (D) TOPOLOGY: linear
83

84 (ii) MOLECULE TYPE: cDNA
85
86
87

88 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
89

90 TACAGATGTA CTAA

14

91
92 (2) INFORMATION FOR SEQ ID NO:3:
93

94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 845 base pairs
96 (B) TYPE: nucleic acid
97 (C) STRANDEDNESS: single
98 (D) TOPOLOGY: linear
99

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:28:17

INPUT SET: S36649.raw

100 (ii) MOLECULE TYPE: cDNA
101
102
103 (ix) FEATURE:
104 (A) NAME/KEY: CDS
105 (B) LOCATION: 20..845
106
107
108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
109
110 ACACAGCAAT CAGGTCAGC CAA AAT TAC CCT ATA GTG CAG AAC ATC CAG GGG 52
111 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly
112 1 5 10
113
114 CAA ATG GTA CAT CAG GCC ATA TCA CCT AGA ACT TTA AAT GCA TGG GTA 100
115 Gln Met Val His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val
116 15 20 25
117
118 AAA GTA GTA GAA GAG AAG GCT TTC AGC CCA GAA GTG ATA CCC ATG TTT 148
119 Lys Val Val Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe
120 30 35 40
121
122 TCA GCA TTA TCA GAA GGA GCC ACC CCA CAA GAT TTA AAC ACC ATG CTA 196
123 Ser Ala Leu Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu
124 45 50 55
125
126 AAC ACA GTG GGG GGA CAT CAA GCA GCC ATG CAA ATG TTA AAA GAG ACC 244
127 Asn Thr Val Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr
128 60 65 70 75
129
130 ATC AAT GAG GAA GCT GCA GAA TGG GAT AGA GTG CAT CCA GTG CAT GCA 292
131 Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala
132 80 85 90
133
134 GGG CCT ATT GCA CCA GGC CAG ATG AGA GAA CCA AGG GGA AGT GAC ATA 340
135 Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile
136 95 100 105
137
138 GCA GGA ACT ACT AGT ACC CTT CAG GAA CAA ATA GGA TGG ATG ACA AAT 388
139 Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn
140 110 115 120
141
142 AAT CCA CCT ATC CCA GTA GGA GAA ATT TAT AAA AGA TGG ATA ATC CTG 436
143 Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu
144 125 130 135
145
146 GGA TTA AAT AAA ATA GTA AGA ATG TAT AGC CCT ACC AGC ATT CTG GAC 484
147 Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp
148 140 145 150 155
149
150 ATA AGA CAA GGA CCA AAG GAA CCC TTT AGA GAC TAT GTA GAC CGG TTC 532
151 Ile Arg Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe
152 160 165 170

RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:28:17

INPUT SET: S36649.raw

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156           175           180           185
157
158 ATG ACA GAA ACC TTG TTG GTC CAA AAT GCG AAC CCA GAT TGT AAG ACT      628
159 Met Thr Glu Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr
160           190           195           200
161
162 ATT TTA AAA GCA TTG GGA CCA GCG GCT ACA CTA GAA GAA ATG ATG ACA      676
163 Ile Leu Lys Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr
164           205           210           215
165
166 GCA TGT CAG GGA GTA GGA GGA CCC GGC CAT AAG GCA AGA GTT TTG GCT      724
167 Ala Cys Gln Gly Val Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala
168 220           225           230           235
169
170 GAA GCA ATG AGC CAA GTA ACA AAT TCA GCT ACC ATA ATG ATG CAG AGA      772
171 Glu Ala Met Ser Gln Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg
172           240           245           250
173
174 GGC AAT TTT AGG AAC CAA AGA AAG ATT GTT AAG TGT TTC AAT TGT GGC      820
175 Gly Asn Phe Arg Asn Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly
176           255           260           265
177
178 AAA GAA GGG CAC ACA GCC AGA AAG T      845
179 Lys Glu Gly His Thr Ala Arg Lys
180           270           275
181
182
183 (2) INFORMATION FOR SEQ ID NO:4:
184
185 (i) SEQUENCE CHARACTERISTICS:
186 (A) LENGTH: 275 amino acids
187 (B) TYPE: amino acid
188 (D) TOPOLOGY: linear
189
190 (ii) MOLECULE TYPE: protein
191
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
193
194 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln
195 1           5           10           15
196
197 Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu
198 20           25           30
199
200 Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu
201 35           40           45
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203 Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly
204 50           55           60
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
TIME: 08:28:18

INPUT SET: S36649.raw

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206 His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala
207 65 70 75 80
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209 Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro
210 85 90 95
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212 Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser
213 100 105 110
214
215 Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro
216 115 120 125
217
218 Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile
219 130 135 140
220
221 Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro
222 145 150 155 160
223
224 Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg
225 165 170 175
226
227 Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu
228 180 185 190
229
230 Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu
231 195 200 205
232
233 Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val
234 210 215 220
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236 Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala Glu Ala Met Ser Gln
237 225 230 235 240
238
239 Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg Gly Asn Phe Arg Asn
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242 Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly Lys Glu Gly His Thr
243 260 265 270
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245 Ala Arg Lys
246 275
247

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(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 948 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001
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INPUT SET: S36649.raw

Line	Error	Original Text
28	Wrong application Serial Number	(A) APPLICATION NUMBER: 08/756,551